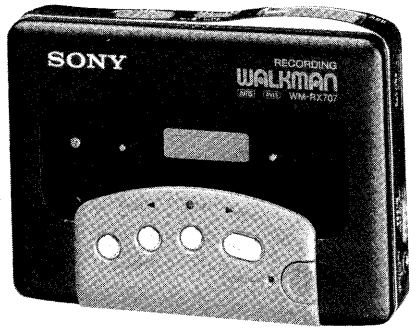
WM-RX707

SERVICE MANUAL

Tourist Model



WALKMAN

Model Name Using Similar Mechanism	WM-EX606
Tape Transport Mechanism Type	MT-WMRX707-60

SPECIFICATIONS

Battery life (hours)

Battery	Playback	Recording with microphone
Rechageable NC-6WM fully charged	Approx. 3	Approx. 2
Sony SUM-3 (NS)	Approx. 2	Approx. 1.5
Sony alkaline AM3 (N)	Approx. 8	Approx. 5.5
NC-6WM with Sony AM3 (N)	Approx. 11	Approx. 7.5

For maximum performance we recommend the use of an alkaline battery.

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

使用時は添付資料も参照のこと
Refer to the additional documents.

CASSETTE RECORDER

SONY®

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

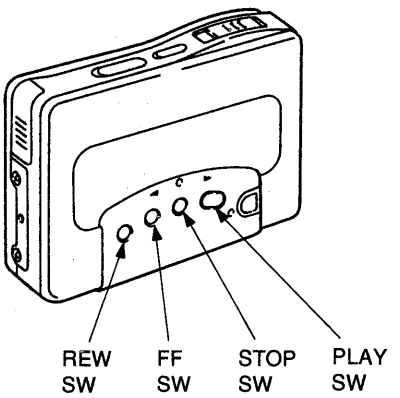
Fiexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SECTION 1
SERVICING NOTE

Hall element H701 mounted on the main board is used to detect rotation of the reels. Because it is mounted on the main board, when the main board is being removed, rotation of the reels cannot be detected and the auto-off/ tape-end detector circuit does not operate correctly.
Switch S701 (for N/R and FF/REW) is also mounted on the main board. Therefore, without the main board, the head cannot be placed in playback position, and power cannot be supplied to the circuitry of the playback system.
When the main board is being removed, follow the procedures below, in order to check operation of the mechanisms of the tape deck and to check voltages supplied to each circuit.

FRONT CABINET



NOTE:

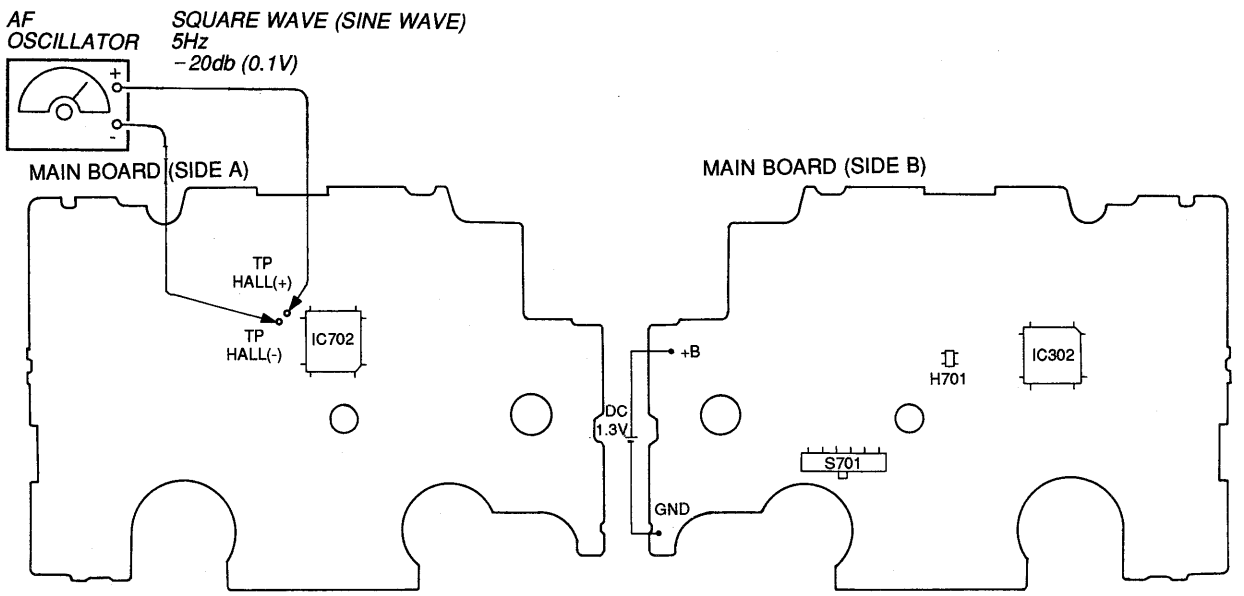
Do not change the setting position of switch S701 when removing the main board. If it has been changed accidentally, or if the desired mode cannot be set with the switch, adjust the setting again after the main board is installed.

FF/REW mode

(1) Apply a square wave signal or a sine wave signal to hall element H701. (See the figure on the right.)
(2) Press the STOP switch for selecting STOP mode.
(3) Press the FF or REW switch.
(4) Remove the main board.

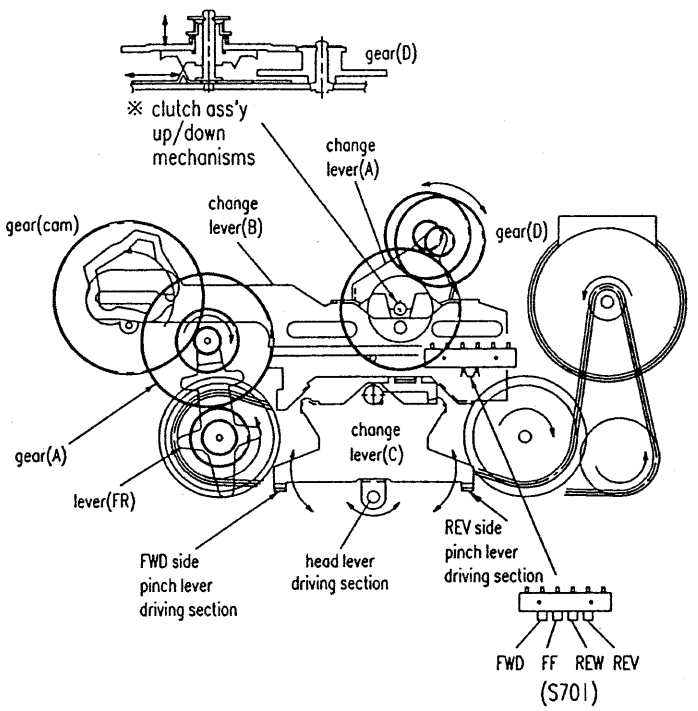
PLAY mode

(1) Apply a square wave signal or a sine wave signal to hall element H701. (See the figure on the right.)
(2) Press the STOP switch for selecting STOP mode.
(3) Press the PLAY switch. With the main board installed, pressing the PLAY switch selects the FWD or REV mode alternatively.
(4) Remove the main board.



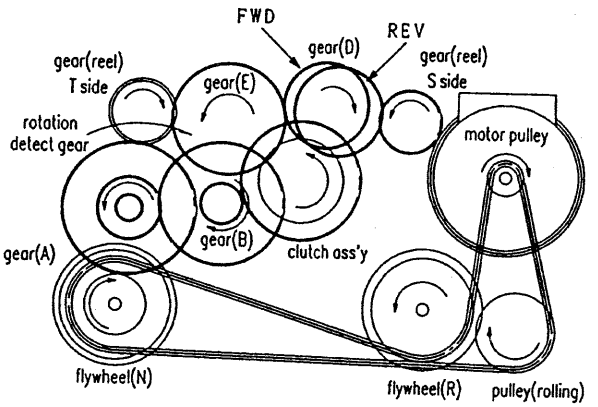
Function of the lever and rotating mechanisms for mode selection

- Mode selection starts when the motor rotates reversely.
- Change lever (B) moves to the left or right when driven with the gear (cam).
- The switch set position of switch S701 (4-position switch) is determined in accordance with the position of Change lever (B). When the switch set position is set appropriately, the motor rotates normally and the tape starts moving.

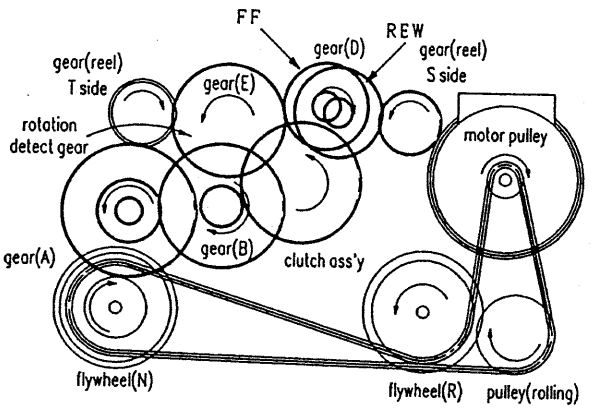


- Lever (FR) is driven with gear (A) by friction, and it swings to the left or right depending on the rotating direction of the motor.
- Selector levers (A) and (C) also swing to the left or right in accordance with the movement of Change lever (B), and the clutch assembly moves upward or downward accordingly.
- The pinch roller is activated and the head is placed in playback position with selector lever (C).
- When the mode is switched from one mode to another, the pinch roller is activated while the motor is rotating reversely (for a short period of time), causing a little slackness in the tape transport.

1. Rotating Mechanisms in PLAY Mode

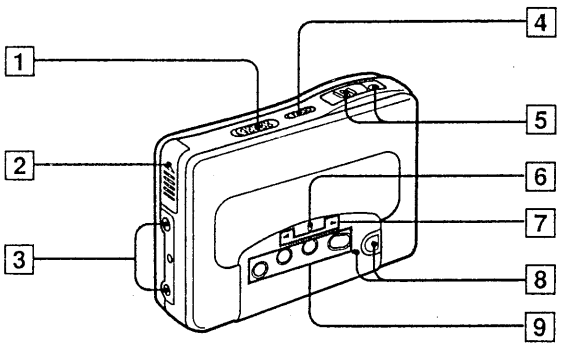


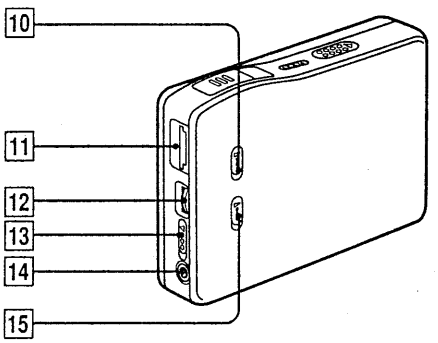
2. Rotating Mechanisms in FF, REW Mode

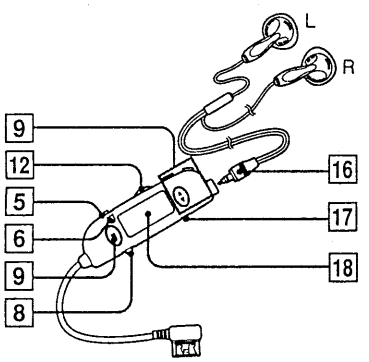


SECTION 2
GENERAL

This section is extracted from instruction manual.





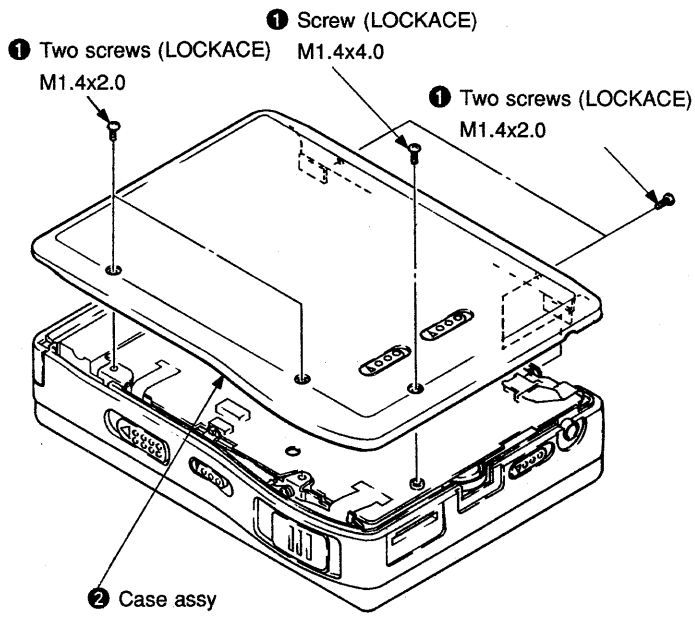


Parts Identification

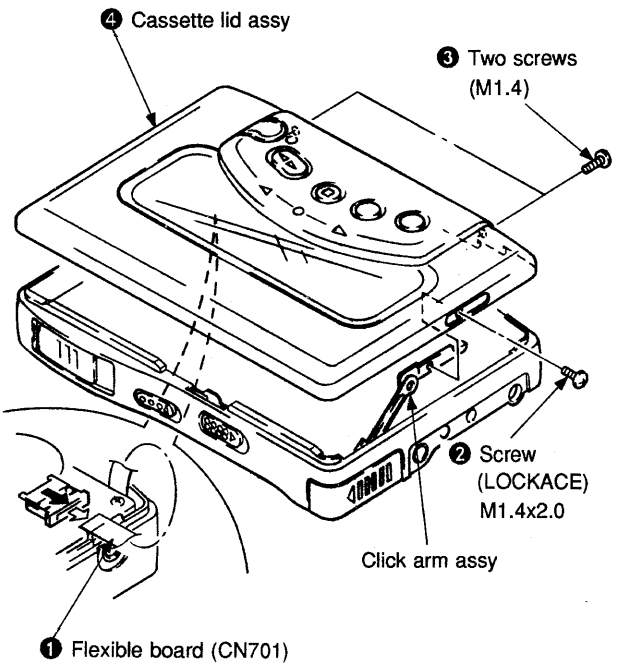
1 **OPEN switch**
2 **Battery compartment for the rechargeable battery**
3 **Battery connecting points (for supplied battery case)**
4 **REC MODE switch**
To record loud sound or music, set the switch to LIVE. To record sound at a lower level such as a meeting, set it to MTG (meeting).
5 **Main unit: REC (recording) button/hold cover**
Remote controller: REC (recording) switch
6 **REC indication**
7 **FWD/REV (tape tansport direction) indication**
8 **Main unit: HOLD switch and indicator**
Remote controller: HOLD switch
To prevent accidentally pressing the operation buttons on the main unit or remote controller, slide the HOLD switch until the HOLD indicator appears or set the HOLD switch to HOLD.
9 **Tape operation buttons**
◄►(playback/tape transport direction change) button
To change the tape transport direction, press it during playback.
■(stop) button
FF (fast-forward)/CUE button
To fast-forward the tape, press it while the unit is in the stop mode.
To cue, press it once during playback. To resume the playback, press the ◄►button.
To listen to the other side of the cassette from the beginning, press it twice during playback. (Skip reverse function)
REW (rewind)/REVIEW button
To rewind the tape rapidly, press it while the unit is in the stop mode.
To review, press it once during playback. To resume the playback, press the ◄►button.
To listen to the currently played back side of the cassette from the beginning, press it twice during playback. (Auto play function)
10 **MODE (playback mode) selector**
⇄:Plays back both sides of the cassette once.
↻: Plays back both sides of the cassette continuously
11 **∩/REMOTE (headphones/remote controller) jack**
12 **VOL (volume) control**
13 **EX DBB (Dynamic Bass Boost) selector**
To listen to heavy and powerful sound, set it to MID (medium) or (MAX (maximum).
14 **MIC (microphone)(PLUG IN POWER) jack**
15 **DOLBY*NR (PB) (Dolby Noise Reduction) switch (for playback only)**
To listen to a tape recorded in the Dolby B NR system, set it to ON.
16 **Micro plug**
17 **AVLS (Automatic Volume Limiter System) selector**
To limit the maximum volume, set it to either 1 or 2.
18 **Display window**

SECTION 3
DISASSEMBLY

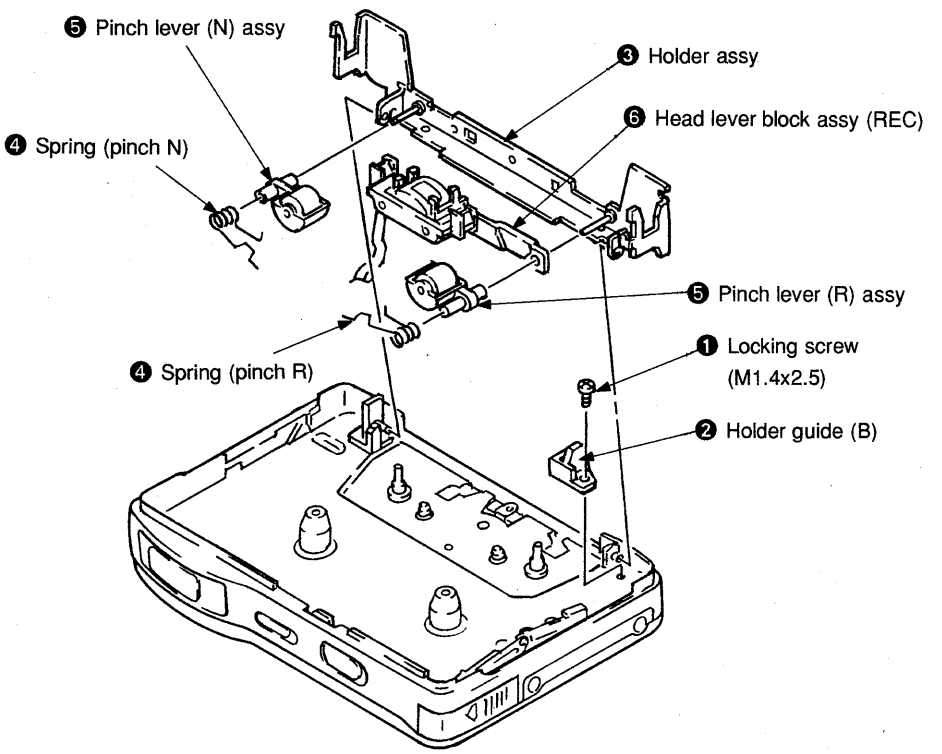
3-1. REMOVAL OF CASE ASSY



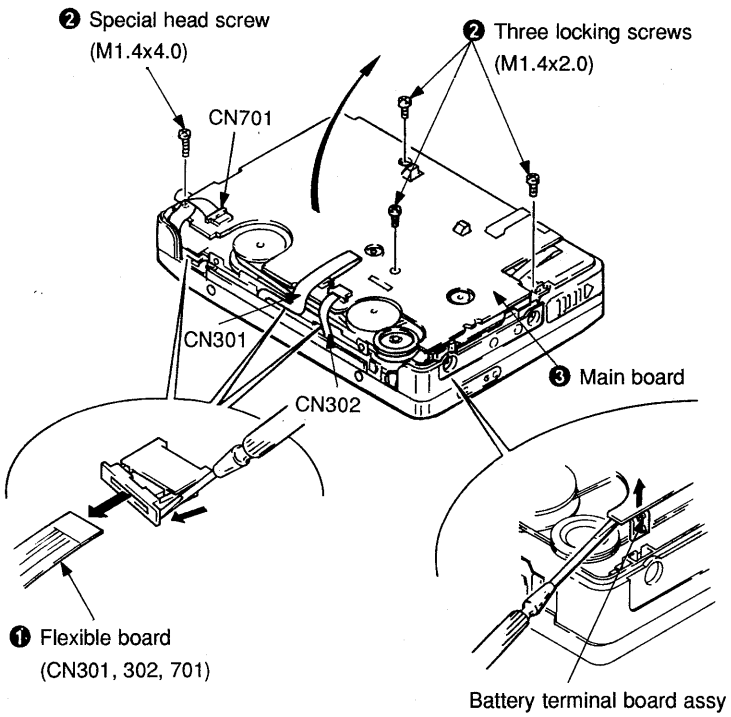
3-2. REMOVAL OF CASSETTE LID ASSY



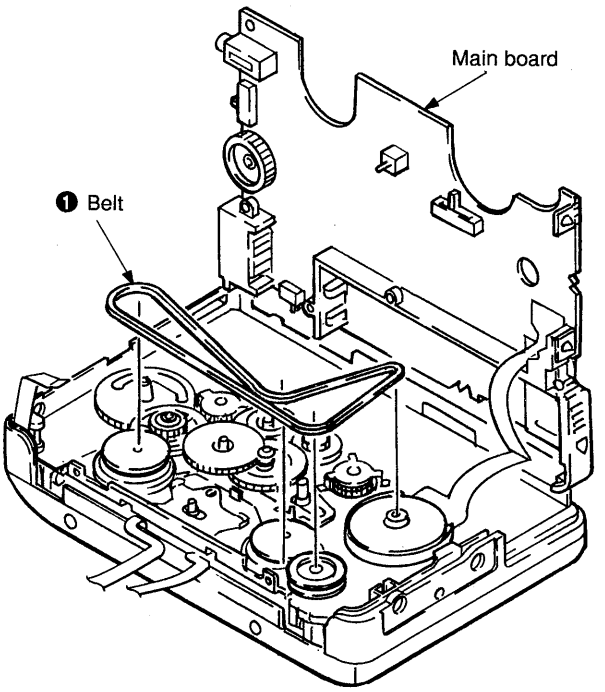
3-3. REMOVAL OF HOLDER



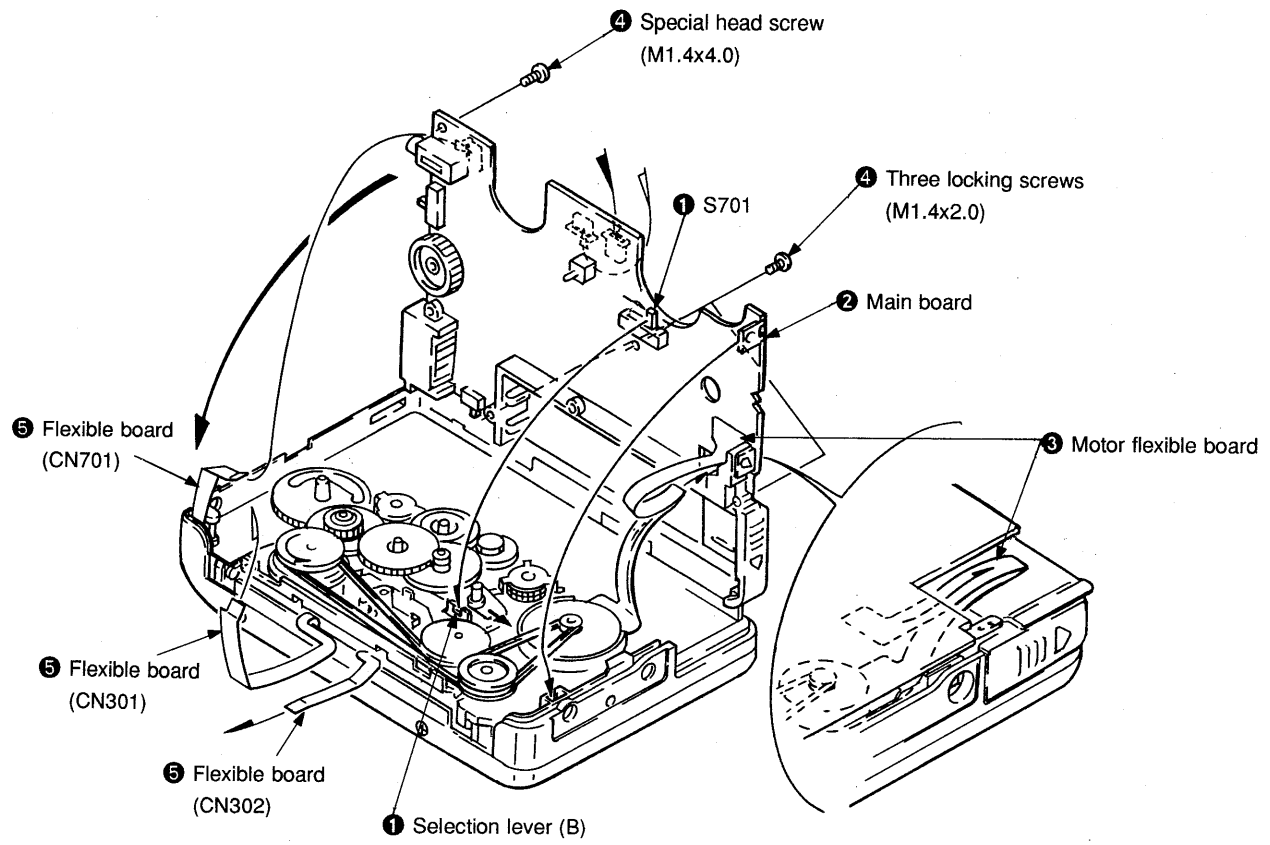
3-4. REMOVAL OF MAIN BOARD



3-5. REMOVAL OF BELT



3-6. INSTALLATION OF MAIN BOARD



SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   playback head　　rubber belts
   capstan　　idlers
   pinch roller
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	21 – 38 g•cm (0.29 – 0.53 oz•inch)
FWD Back Tension		0.5 – 3 g•cm (0.01 – 0.04 oz•inch)
REV	CQ-102RC	21 – 38 g•cm (0.29 – 0.53 oz•inch)
REV Back Tension		0.5 – 3 g•cm (0.01 – 0.04 oz•inch)
FF	CQ-201B	more than 60 g•cm (more than 0.84 oz•inch)
REW		

Tape Pulling Force Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 40 g (more than 1.4 oz)
REV	CQ-403R	

4-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

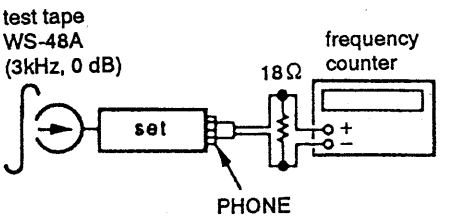
1. Power supply voltage : 1.3V
2. Switch position
   DOLBY NR switch : OFF
   EX DBB switch : NORM
3. For electrical adjustments, use the supplied plug conversion adaptor (Part No. 1-691-322-11)

Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

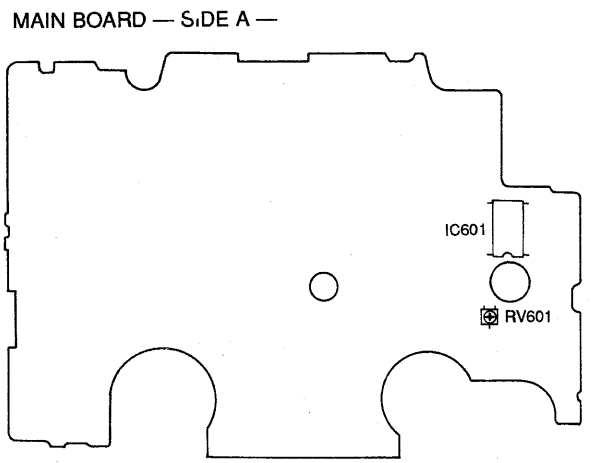
TAPE SPEED ADJUSTMENT

Procedure :



1. Play back WS-48A (tape center portion) in FWD mode. Adjust the RV601 so that the frequency counter reads 3,000 ± 30Hz.
2. Play back WS-48A (tape center portion) in REV mode. Confirm that the reading of frequency counter is within 2.5% from the reading in step 1.

Adjustment Parts Location Diagram :



SECTION 5
IC PIN FUNCTIONS

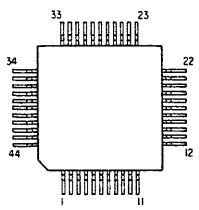
IC702 SYSTEM CONTROL IC (MSM6576-30GS-K)

Pin No.	Pin Name	I/O	Function	INIT	ACT
1	M-CTL	O	"H"=MOTOR ON	L	H
2	M-DIR	O	"H"=counter-clockwise rotation, "L"=clockwise rotation.	L	H
3	M-BRK	O	"H"=BREAK ON	L	H
4	RESET	–	Reset pin	–	–
5	TEST1	–	Test pin (fixed at "L")	–	–
6	TEST2	–	Test pin (fixed at "L")	–	–
7	TEST3	–	Test pin (fixed at "L")	–	–
8	FWD	I	Switch pin	L	H
9	FF	I	Switch pin	L	H
10	REW	I	Switch pin	L	H
11	REV	I	Switch pin	L	H
12	RADIO PW	I/O	Fixed at "H"	L	L
13	SCLK1	I/O	Reception in cf unit, transmission in tc unit.	H	–
14	DATA1	O	Communication pin	L	–
15	XTB	–	Connected to crystal oscillator for clock (32.768kHz)	–	–
16	XT	–	Connected to crystal oscillator for clock (32.768kHz)	–	–
17	Vcc	–	1.5V power supply	–	–
18	VSS1	–	GND	–	–
19	VCM	–	Increases power supply voltage	–	–
20	VCP	–	Increases power supply voltage	–	–
21	VSS2	–	Increases power supply voltage	–	–
22	VEE	–	Increases power supply voltage	–	–
23	HALL+	I	Hall element detected by rotation	–	–
24	HALL–	I	Hall element detected by rotation	–	–
25	COMP IN	I	Operation button signal	–	–
26	RMUM	I	"L"=Remote commander micro computer on. Output from remote commander when "h" (tc unit only)	H	L
27	BEEP	–	Beep pin	–	–
28	CE CTL	O	Not used in this unit.	–	–
29	CLAW(FWD)	I	"L"=With claw	H	L
30	LED1	O	"H"=Lights on	L	H
31	LED2	O	"H"=Lights on	L	H
32	AMP CTL	O	"H"=AMP ON	L	H
33	MUTE CTL	O	"L"=MUTE ON	L	L
34	RQT	O	Not used in this unit.	L	H
35	CUE/REVIEW CTL	O	"H"=CUE and REVIEW, "L"=other than these.	L	H
36	AMS IN	I	Not used.	–	–
37	MODE	I	"L"=ENDLESS MODE, BL. SKIP ON	–	–
38	TAPE	I	"L"=with TAPE	H	L
39	VDD	–	1.5V power supply	–	–
40	CLAW(REV)	I	"L"=with claw	H	L
41	CF/TC	I	"L"=CF, "H"=TC	–	–
42	REC/PB	I	"L"=REC, "H"=PB	–	–
43	AUS/CUE•REVIEW	I	"L"=AMS, "H"=CUE, REVIEW	–	–
44	REC CTL	O	"H"=REC ON	L	H

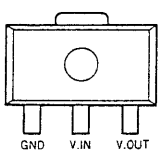
SECTION 6
DIAGRAMS

6-1. SEMICONDUCTOR LEAD LAYOUTS

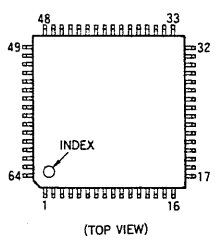
MSM6576-30GS-K



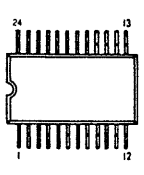
S-81211PG-PA



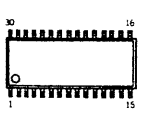
TA2032AF



TA8155FN

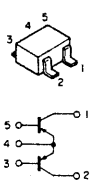


TLP326ADB



UN5115
UN5215
2SB1295-UL6
2SB815-B7
2SD1048-X7
2SD1328-S
2SD1819A-R
2SD596DV345

XN1115
XN1116



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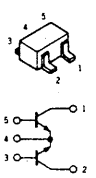
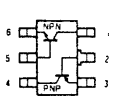
XN1501



XN4315
XN4604



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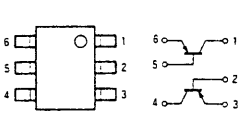

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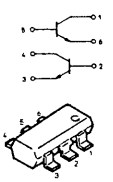
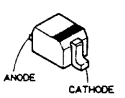
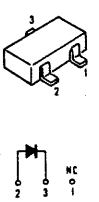


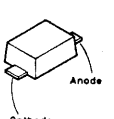
MA110



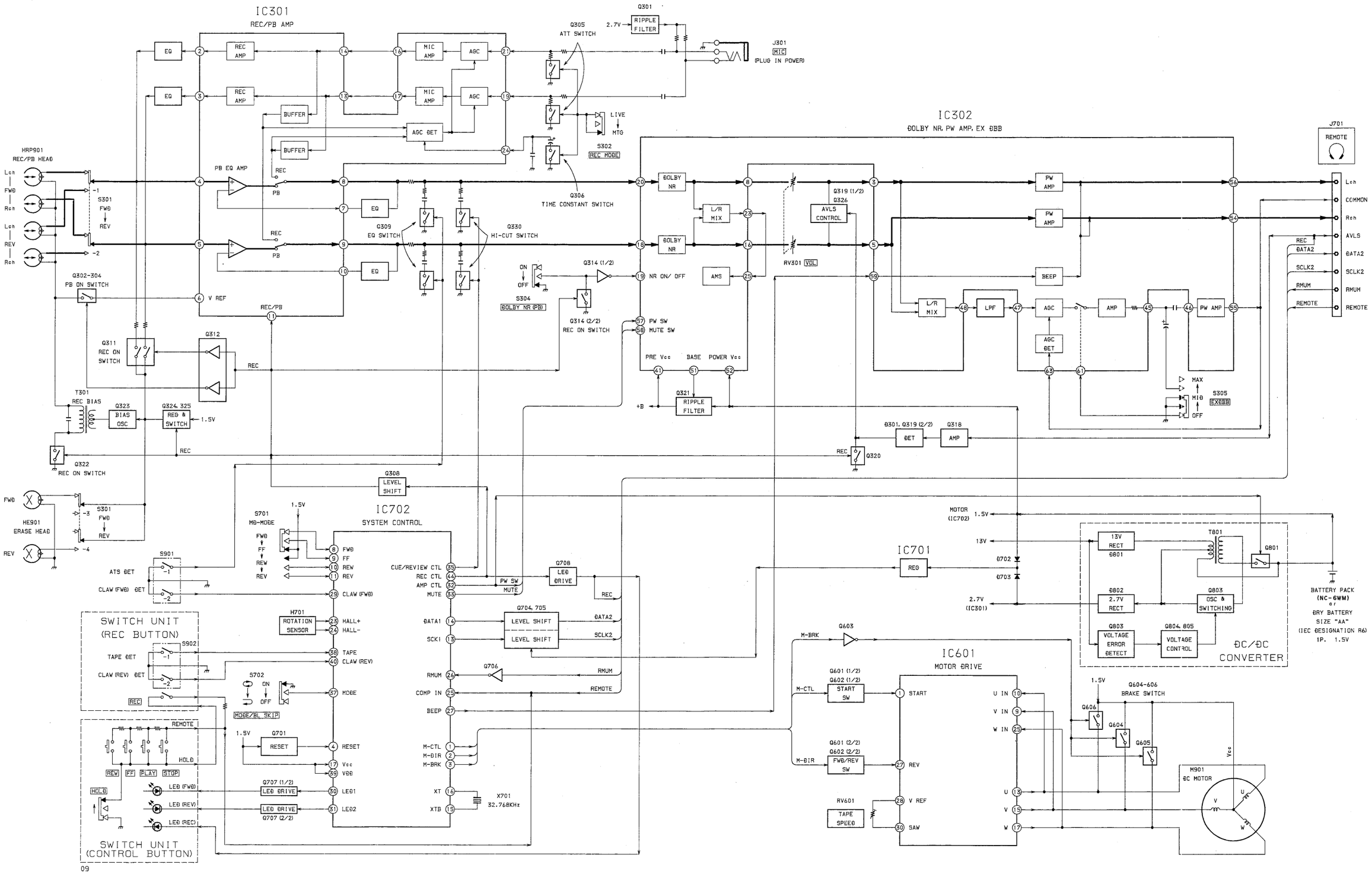
MA720



MA729
MA8130-L



6-2. BLOCK DIAGRAM



6-3. PRINTED WIRING BOARD

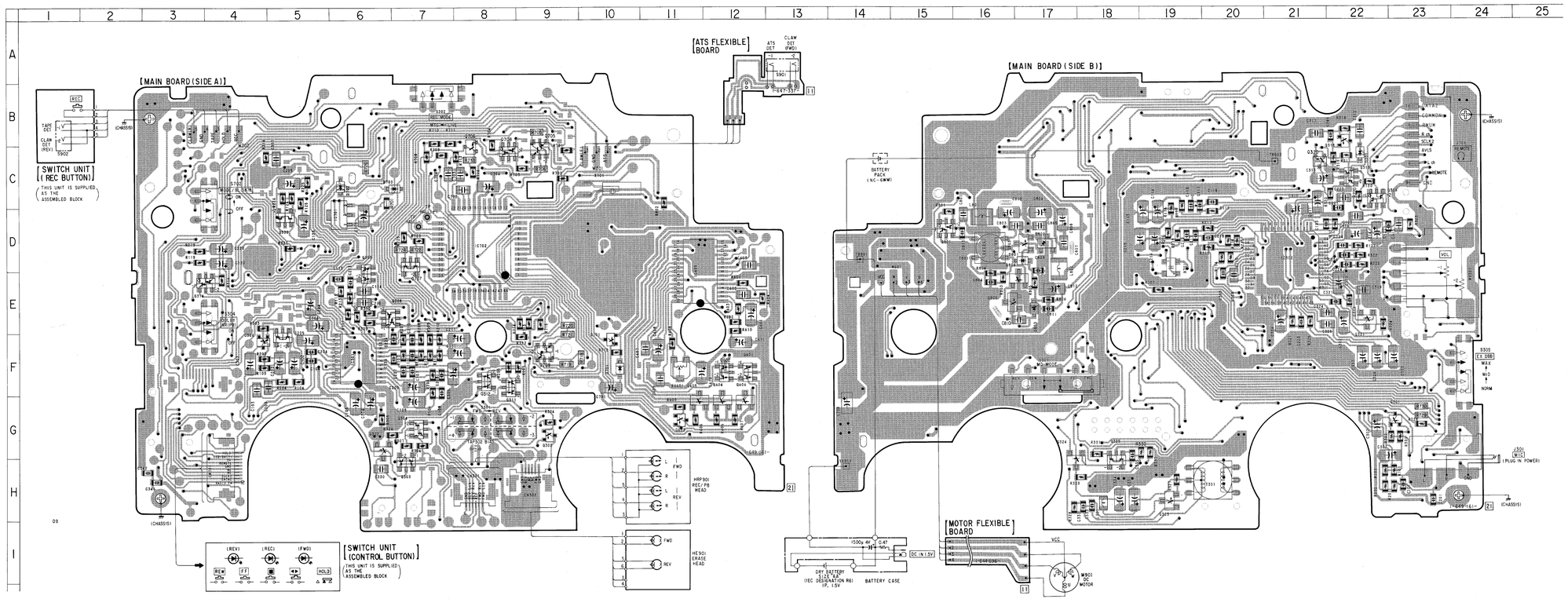
• See page 10 for Semiconductor Lead Layouts.

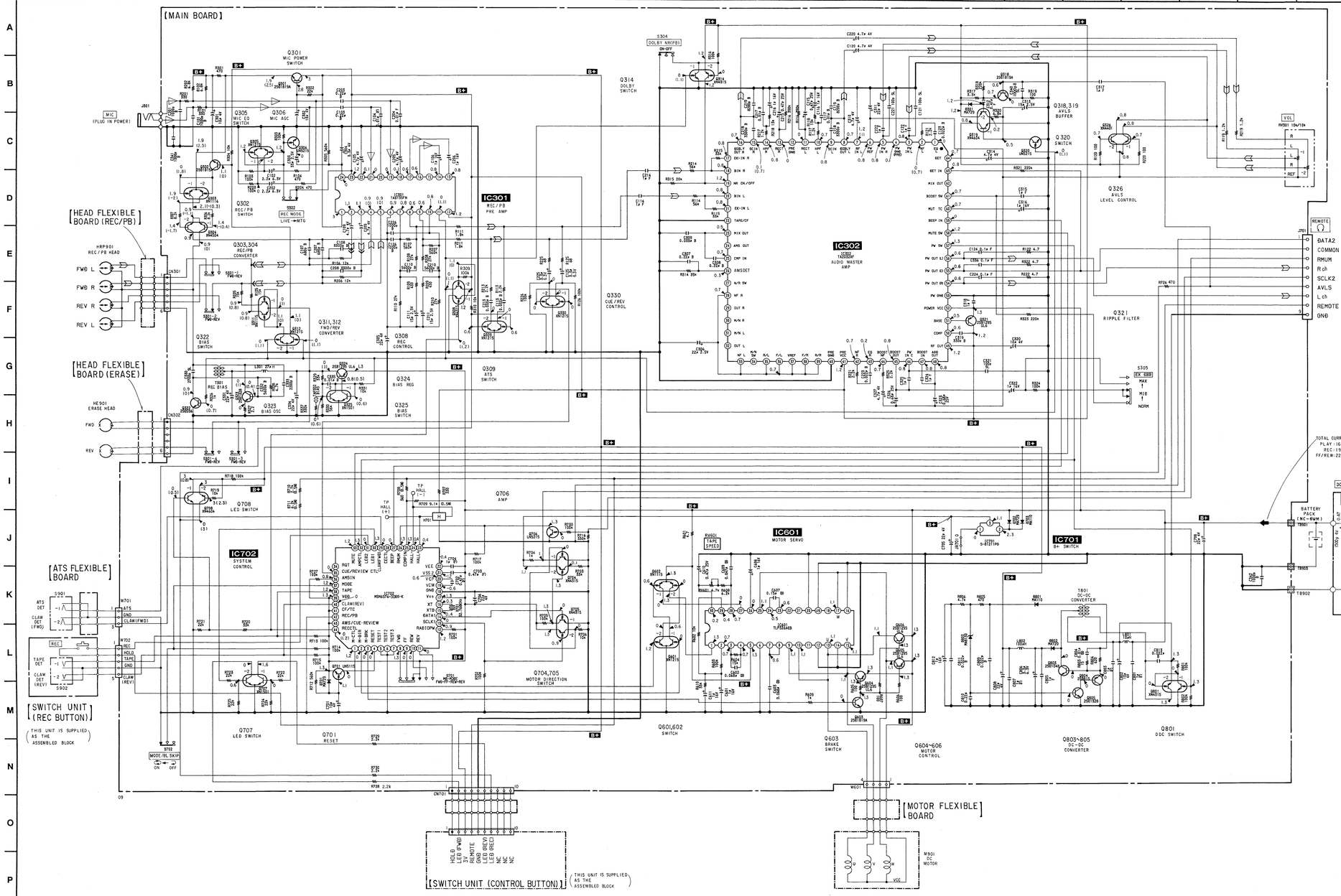
• Semiconductor Location

Ref. No.	Location
D301	C-22
D701	F-10
D702	C-6
D703	C-6
D801	D-16
D802	D-17
D803	E-16
IC301	F-6
IC302	D-21
IC601	D-11
IC701	D-5
IC702	D-8
Q301	G-22
Q302	G-9
Q303	H-7
Q304	G-7
Q305	E-5
Q306	E-4
Q308	E-6
Q309	D-6
Q311	F-8
Q312	F-8
Q314	E-3
Q318	B-21
Q319	C-22
Q320	C-21
Q321	E-22
Q322	G-6
Q323	H-19
Q324	G-17
Q325	G-18
Q326	C-22
Q330	D-5
Q601	F-12
Q602	F-12
Q603	G-11
Q604	F-12
Q605	F-11
Q606	F-12
Q701	E-10
Q704	B-8
Q705	B-9
Q706	B-8
Q707	E-7
Q708	F-9
Q801	D-15
Q803	D-16
Q804	D-16
Q805	E-16

Note:

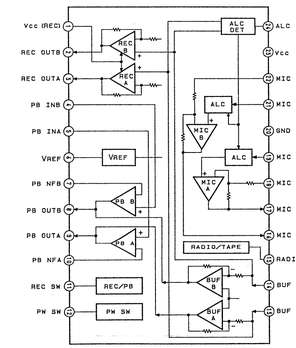
- ● : Through hole.
- ▒ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)


[MAIN BOARD (SIDE A)]
[SWITCH UNIT (REC BUTTON)]
THIS UNIT IS SUPPLIED AS THE ASSEMBLED BLOCK
[SWITCH UNIT (CONTROL BUTTON)]
THIS UNIT IS SUPPLIED AS THE ASSEMBLED BLOCK
[ATS FLEXIBLE BOARD]
[MAIN BOARD (SIDE B)]
[MOTOR FLEXIBLE BOARD]
BATTERY PACK (NC-6WM)
DRY BATTERY (IEC DESIGNATION R6) 1P, 1.5V
BATTERY CASE
HRP901 REC/PB HEAD
HEB01 ERASE HEAD
MDM001 DC MOTOR
J301 MIC (PLUG IN POWER)
S305 EX DBB
(CHASSIS)

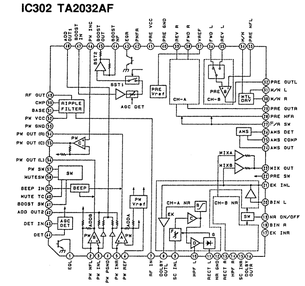


• IC BLOCK DIAGRAMS

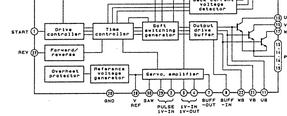
IC301 TA8155FN



IC302 TA2032AF



IC601 TLP326ADB



Note:

- All capacitors are in μF unless otherwise noted. pF:μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

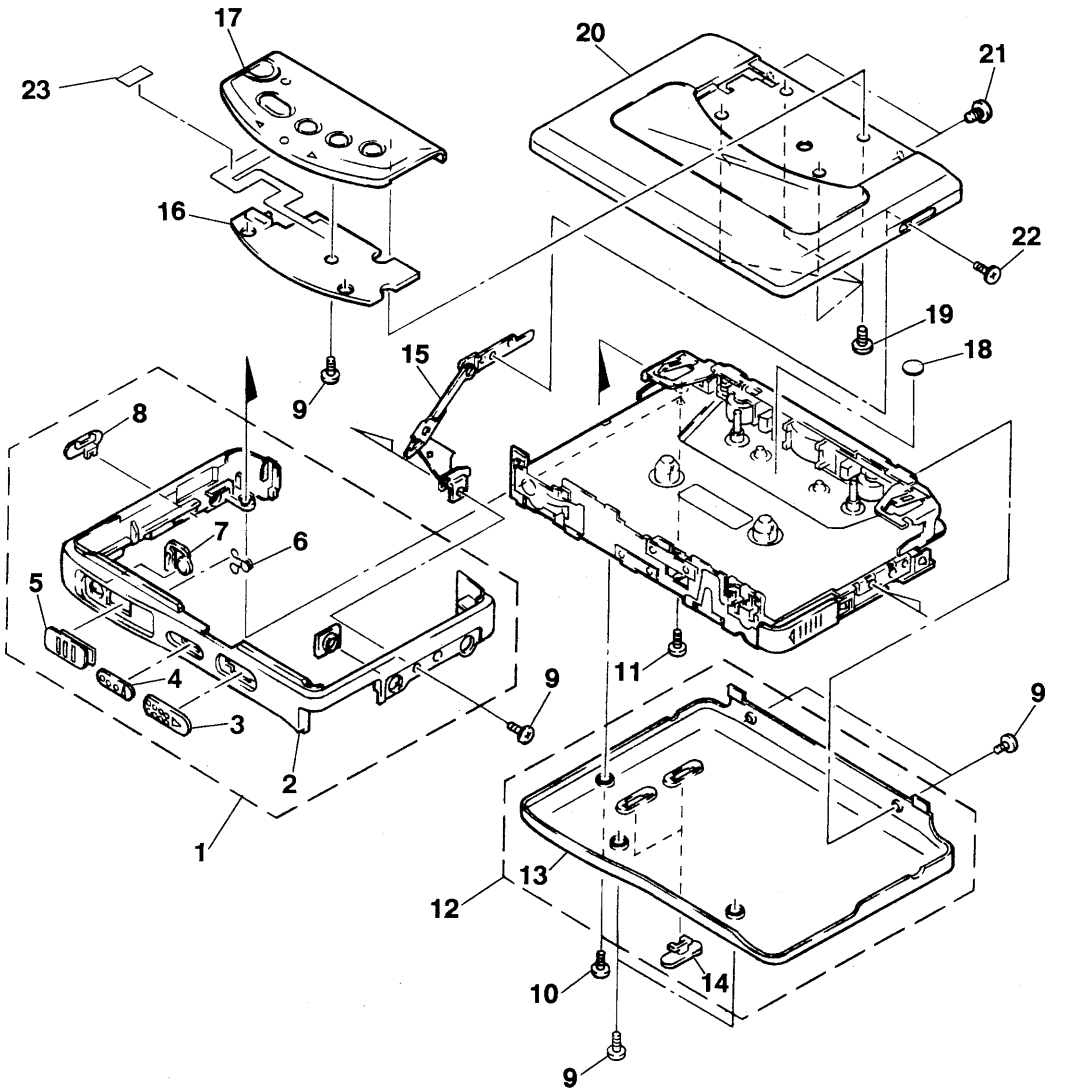
- B+ : B+ Line
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Supply 1.3Vdc from the battery terminal as regulated power voltage.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
  ( ) : REC
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷▷ : PB
  ▷▷ : REC
  ▽ : MIC

SECTION 7
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

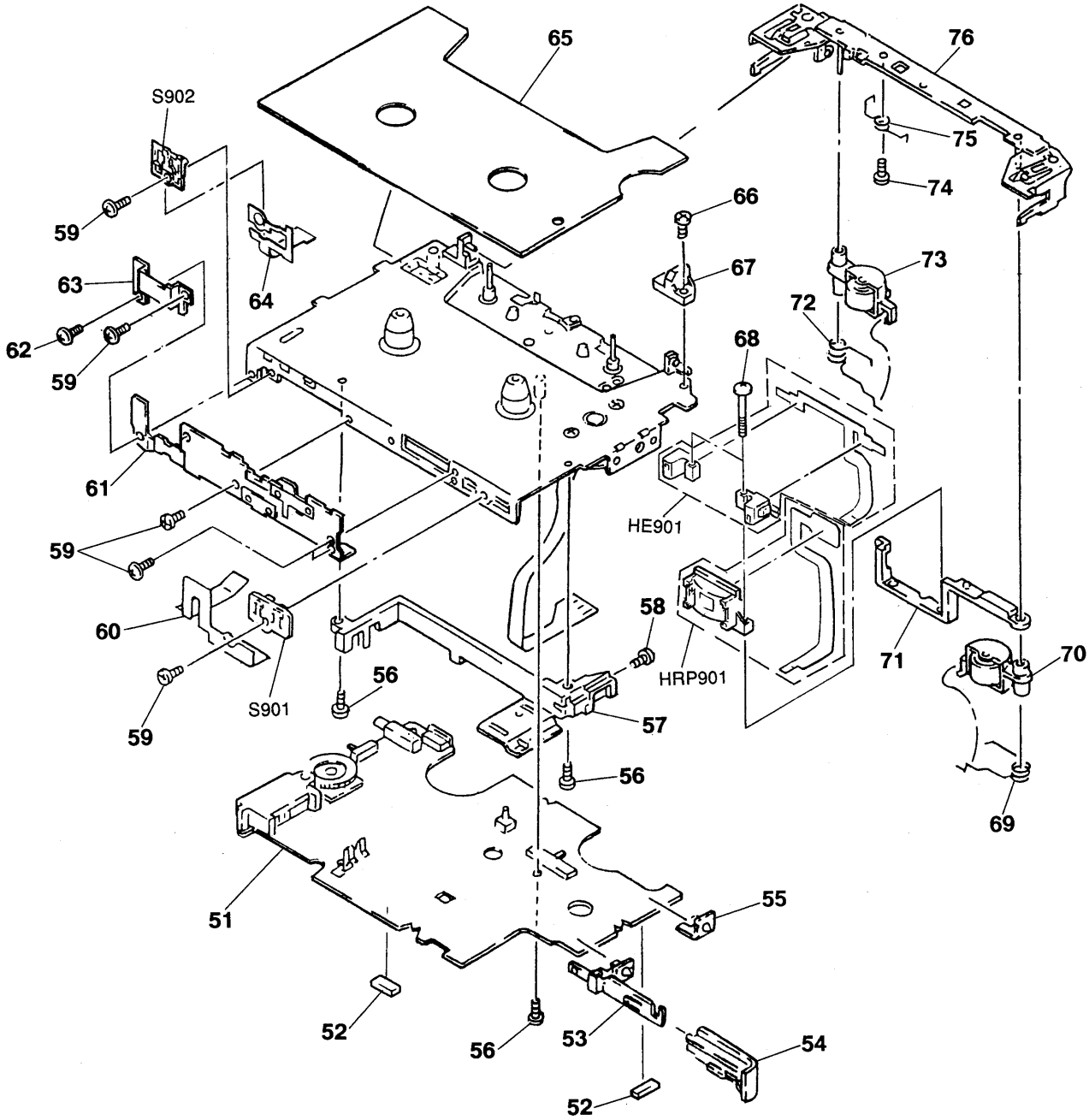
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. ORNAMENT BLOCK



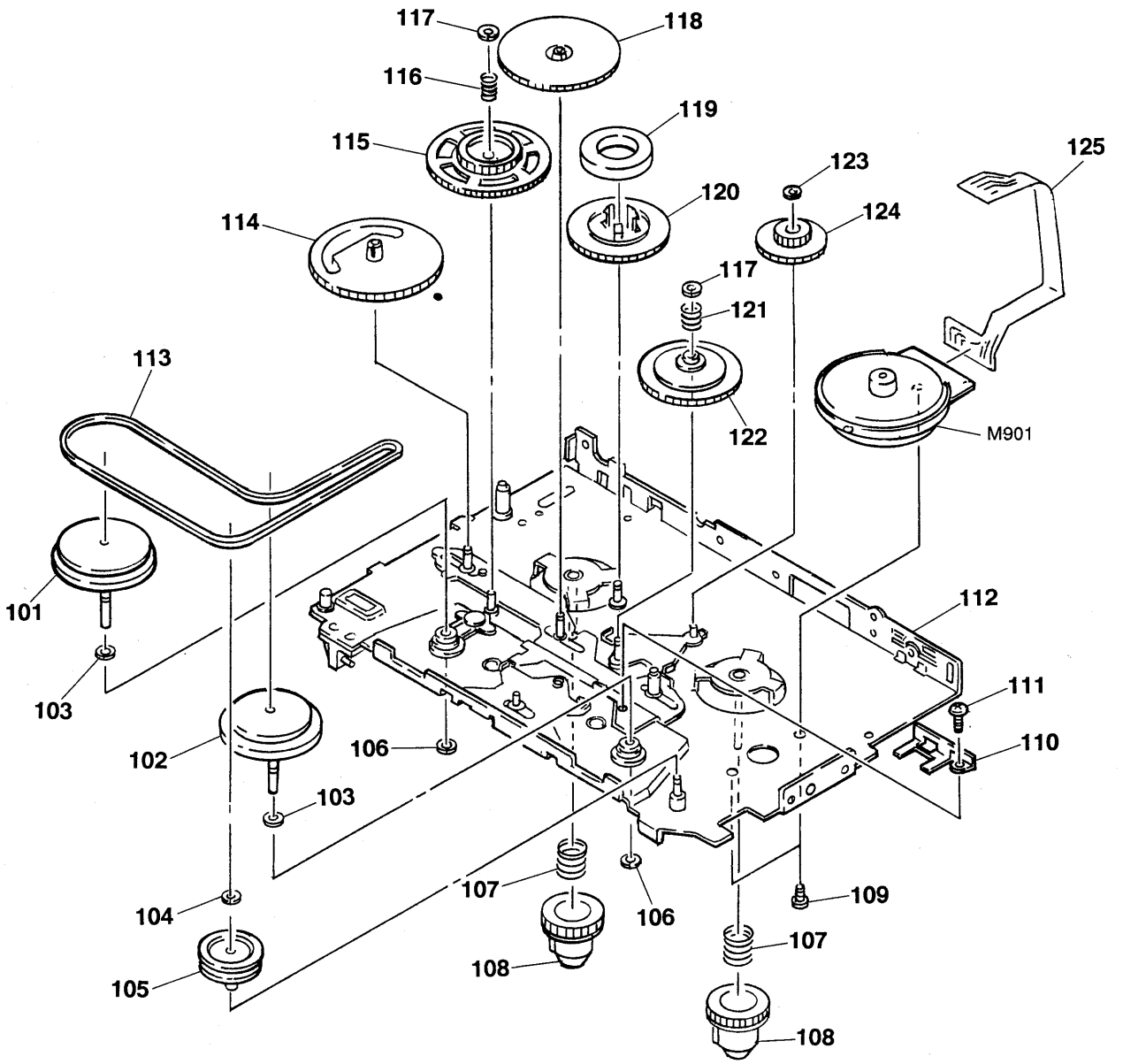
Ref. No.	Part No.	Description	Remark
1	X-3367-031-1	ORNAMENT ASSY, REEL	
2	3-905-012-01	ORNAMENT, REEL	
3	3-905-013-01	KNOB (OPEN)	
4	3-905-014-01	KNOB (REC MODE)	
5	3-905-017-01	COVER (REC BUTTON)	
6	3-905-018-01	SPRING (REC BUTTON COVER)	
7	3-905-016-01	BUTTON (REC)	
8	3-905-015-01	KNOB (DBB)	
9	3-389-523-16	SCREW (LOCKACE) M1.4X2.0	
10	3-389-523-36	SCREW (LOCKACE) M1.4X4.0	
11	3-703-816-11	SCREW (M1.4X4.0), SPECIAL HEAD	
12	X-3367-049-1	CASE ASSY (B)	
13	3-905-019-01	CASE	
14	3-905-007-01	KNOB (DOLBY)	
15	X-3367-048-1	ARM ASSY, CLICK	
16	1-467-223-11	SWITCH UNIT (CONTROL BUTTON)	
17	X-3367-045-1	PLATE ASSY ORNAMENTAL	
* 18	3-378-826-01	SHEET (AB)	
19	3-318-382-21	SCREW (1.7X3), TAPPING	
20	X-3367-043-1	LID ASSY (B), CASSETTE	
21	3-365-630-31	SCREW (M1.4)	
22	3-389-523-16	SCREW (LOCKACE)	
23	3-309-595-11	SHEET, INSULATING, PACK	

7-2. MAIN BOARDS BLOCK



Ref. No.	Part No.	Description	Remark
51	A-3060-759-A	MAIN BOARD, COMPLETE	
52	9-911-839-XX	CUSHION (2,5X8)	
53	X-3366-555-1	TERMINAL BOARD ASSY, BATTERY	
54	3-904-985-01	LID, BATTERY CASE	
55	3-373-824-01	TERMINAL BOARD	
56	3-703-816-41	SCREW (M1.4X2.5), SPECIAL HEAD	
57	3-387-888-11	HOLDER, BATTERY	
58	3-389-523-16	SCREW (LOCKACE) M1.4X2.0	
59	3-376-407-01	SCREW (M1.4)	
60	1-647-337-11	PC BOARD, ATS FLEXIBLE	
61	X-3367-032-1	BRACKET (A) ASSY	
62	3-389-523-14	SCREW (LOCKACE) M1.4X2.0	
* 63	3-904-986-01	BRACKET	
64	1-467-224-11	SWITCH UNIT (REC BUTTON)	
65	3-905-027-01	COVER, MD	
66	3-704-197-21	SCREW (M1.4X2.5), LOCKING	
67	3-386-704-01	GUIDE (B), HOLDER	
68	3-389-448-01	SCREW (M1.4), STEP	
69	3-386-685-02	SPRING (PINCH R)	
70	X-3366-296-1	PINCH LEVER (R) ASSY	
* 71	3-386-646-01	LEVER, HEAD	
72	3-386-684-02	SPRING (PINCH N)	
73	X-3366-298-1	PINCH LEVER (N) ASSY	
74	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
75	3-386-683-01	SPRING (H)	
76	X-3366-299-1	HOLDER ASSY	
HE901	1-500-059-11	HEAD, MAGNETIC (ERASE)	
HRP901	1-500-060-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
S901	1-692-100-11	SWITCH, LEAF (ATS/CLAW DET)	
S902	1-692-101-11	SWITCH, LEAF (TAPE/CLAW DET)	

7-3. MECHANISM BLOCK (MT-WMRX707-60)



Ref. No.	Part No.	Description	Remark
101	X-3366-294-1	WHEEL (N) ASSY, CAPSTAN	
102	X-3366-297-1	WHEEL (R) ASSY, CAPSTAN	
103	3-386-694-01	WASHER	
104	3-338-645-21	WASHER (0.8-2.5)	
105	3-386-711-01	PULLEY (REVERSE)	
106	3-325-394-01	WASHER, STOPPER	
107	3-386-662-01	SPRING, COMPRESSION	
108	3-386-634-01	GEAR (REEL)	
109	3-906-045-01	SCREW	
* 110	3-906-049-01	LEVER (REC), SELECTION	
111	3-366-892-01	SCREW (M1.4X1.1)	
112	X-3366-295-4	CHASSIS ASSY	
113	3-388-079-01	BELT	
114	3-386-852-01	GEAR (CAM)	
115	3-386-631-01	GEAR (A)	
116	3-904-228-01	SPRING, COMPRESSION	
117	3-906-183-01	WASHER	
118	3-386-691-01	GEAR (B)	
119	3-386-706-01	MAGNET	
120	3-386-633-01	GEAR (E)	
121	3-904-227-01	SPRING, COMPRESSION	
122	X-3366-293-1	CLUTCH ASSY	
123	3-338-645-31	WASHER (0.8-2.5)	
124	3-386-632-01	GEAR (D)	
125	1-644-696-11	PC BOARD, MOTOR FLEXIBLE	
M901	1-698-084-11	MOTOR	

ATS FLEXIBLE

MAIN

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list is given in the last of this parts list.

Ref. No.	Part No.	Description			Remark
	1-647-337-11	ATS FLEXIBLE BOARD			
		**********			
		< SWITCH >			
S901	1-692-100-11	SWITCH, LEAF (ATS/CLAW DET)			
**********					
	A-3060-759-A	MAIN BOARD, COMPLETE			
		**********			
	3-373-823-01	TERMINAL BOARD (MINUS)			
	3-373-824-01	TERMINAL BOARD			
	3-387-888-01	HOLDER, BATTERY			
	3-704-197-03	SCREW (M1.4X1.6), LOCKING			
	3-906-208-01	COLLAR (CHASSIS)			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V
C103	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C104	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C105	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C106	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C107	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C108	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C109	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C110	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C111	1-135-219-11	TANTAL. CHIP	15uF	20%	2.5V
C113	1-164-677-11	CERAMIC CHIP	0.033uF	10%	25V
C114	1-164-234-11	CERAMIC CHIP	1uF		10V
C115	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C116	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C117	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C118	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C119	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C120	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C121	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C122	1-164-234-11	CERAMIC CHIP	1uF		10V
C123	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C124	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C125	1-135-180-21	TANTALUM CHIP	3.3uF	20%	6.3V
C126	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V
C203	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C204	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C205	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C206	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C207	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C208	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C209	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C210	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C211	1-135-219-11	TANTAL. CHIP	15uF	20%	2.5V
C213	1-164-677-11	CERAMIC CHIP	0.033uF	10%	25V
C214	1-164-234-11	CERAMIC CHIP	1uF		10V
C215	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C216	1-135-091-00	TANTALUM CHIP	1uF	20%	16V
C217	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C218	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C219	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C220	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C221	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C222	1-164-234-11	CERAMIC CHIP	1uF		10V
C223	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C224	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C225	1-135-180-21	TANTALUM CHIP	3.3uF	20%	6.3V
C226	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C302	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C303	1-107-520-11	TANTAL. CHIP	33uF	20%	2.5V
C304	1-135-180-21	TANTALUM CHIP	3.3uF	20%	6.3V
C305	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C306	1-135-316-11	TANTAL. CHIP	22uF	20%	2.5V
C307	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C308	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C309	1-164-677-11	CERAMIC CHIP	0.033uF	10%	25V
C310	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C311	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C312	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C313	1-135-219-11	TANTAL. CHIP	15uF	20%	2.5V
C314	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C315	1-164-234-11	CERAMIC CHIP	1uF		10V
C316	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C317	1-164-234-11	CERAMIC CHIP	1uF		10V

Ref.No.	Part No.	Description			Remark
C318	1-164-234-11	CERAMIC CHIP	1uF		10V
C319	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C320	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C321	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C322	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C323	1-135-146-21	TANTALUM CHIP	0.68uF	20%	25V
C324	1-164-234-11	CERAMIC CHIP	1uF		10V
C325	1-164-234-11	CERAMIC CHIP	1uF		10V
C326	1-135-146-21	TANTALUM CHIP	0.68uF	20%	25V
C327	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C330	1-163-014-00	CERAMIC CHIP	0.0027uF	5%	50V
C331	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C332	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C333	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C334	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C335	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C336	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C340	1-162-964-11	CERAMIC CHIP	1000PF	5%	50V
C341	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C342	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C602	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C603	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C607	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C608	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C609	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C610	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C611	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C701	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C702	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C703	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C704	1-164-234-11	CERAMIC CHIP	1uF		10V
C705	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C706	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C708	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C801	1-164-234-11	CERAMIC CHIP	1uF		10V
C802	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C803	1-164-234-11	CERAMIC CHIP	1uF		10V
C804	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C805	1-164-234-11	CERAMIC CHIP	1uF		10V
C806	1-135-180-21	TANTALUM CHIP	3.3uF	20%	6.3V
C807	1-164-234-11	CERAMIC CHIP	1uF		10V
C808	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C809	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C810	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C811	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C812	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C813	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

Ref.No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN301	1-764-051-21	CONNECTOR, FPC 6P	
* CN302	1-764-051-21	CONNECTOR, FPC 6P	
CN701	1-764-050-21	CONNECTOR, FPC (ZIF) 10P	
		< DIODE >	
D301	8-719-420-51	DIODE MA729	
D701	8-719-420-51	DIODE MA729	
D702	8-719-420-51	DIODE MA729	
D703	8-719-404-46	DIODE MA110	
D801	8-719-404-46	DIODE MA110	
D802	8-719-023-31	DIODE MA720	
D803	8-719-022-89	DIODE MA8130-L	
		< HALL ELEMENT >	
H701	8-759-084-18	ELEMENT, HALL SHS220-IJ	
		< IC >	
IC301	8-759-062-63	IC TA8155FN	
IC302	8-759-155-37	IC TA2032AF	
IC601	8-759-996-13	IC TLP326ADB	
IC701	8-759-190-80	IC S-81211PG-PA	
IC702	8-759-181-64	IC MSM6576-30GS-K	
		< JACK >	
J301	1-573-794-21	JACK (MIC)	
J701	1-565-436-51	JACK (REMOTE)	
		< JUMPER RESISTOR >	
JR701	1-216-864-11	METAL GLAZE 0 5% 1/16W	
		< COIL >	
L301	1-412-011-31	INDUCTOR CHIP 27uH	
L801	1-412-029-11	INDUCTOR CHIP 10uH	
L802	1-412-032-11	INDUCTOR CHIP 100uH	
		< TRANSISTOR >	
Q301	8-729-402-32	TRANSISTOR 2SD1819A-R	
Q302	8-729-402-32	TRANSISTOR 2SD1819A-R	
Q303	8-729-423-75	TRANSISTOR XN1116	
Q304	8-729-425-18	TRANSISTOR XN4504	
Q305	8-729-403-17	TRANSISTOR XN1215	
Q306	8-729-420-50	TRANSISTOR UN5215	
Q308	8-729-422-18	TRANSISTOR XN4315	
Q309	8-729-403-17	TRANSISTOR XN1215	
Q311	8-729-403-45	TRANSISTOR XN1115	
Q312	8-729-403-17	TRANSISTOR XN1215	
Q314	8-729-422-18	TRANSISTOR XN4315	
Q318	8-729-402-32	TRANSISTOR 2SD1819A-R	

MAIN

Ref. No.	Part No.	Description	Remark
Q319	8-729-425-24	TRANSISTOR XN4604	
Q320	8-729-420-50	TRANSISTOR UN5215	
Q321	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q322	8-729-141-75	TRANSISTOR 2SD596DV345	
Q323	8-729-400-55	TRANSISTOR 2SD1328-S	
Q324	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q325	8-729-402-13	TRANSISTOR XN1501	
Q326	8-729-403-27	TRANSISTOR XN4401	
Q330	8-729-403-17	TRANSISTOR XN1215	
Q601	8-729-403-17	TRANSISTOR XN1215	
Q602	8-729-403-45	TRANSISTOR XN1115	
Q603	8-729-402-32	TRANSISTOR 2SD1819A-R	
Q604	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q605	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q606	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q701	8-729-420-53	TRANSISTOR UN5115	
Q704	8-729-422-18	TRANSISTOR XN4315	
Q705	8-729-422-18	TRANSISTOR XN4315	
Q706	8-729-420-50	TRANSISTOR UN5215	
Q707	8-729-402-13	TRANSISTOR XN1501	
Q708	8-729-425-24	TRANSISTOR XN4604	
Q801	8-729-422-18	TRANSISTOR XN4315	
Q803	8-729-800-37	TRANSISTOR 2SD1048-X7	
Q804	8-729-800-73	TRANSISTOR 2SB815-B7	
Q805	8-729-400-55	TRANSISTOR 2SD1328-S	

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R101	1-216-815-11	METAL CHIP	330	5% 1/16W	
R102	1-216-831-11	METAL CHIP	6.8K	5% 1/16W	
R103	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R104	1-216-817-11	METAL CHIP	470	5% 1/16W	
R105	1-216-835-11	METAL CHIP	15K	5% 1/16W	
R106	1-216-834-11	METAL CHIP	12K	5% 1/16W	
R107	1-216-854-11	METAL CHIP	560K	5% 1/16W	
R108	1-216-838-11	METAL CHIP	27K	5% 1/16W	
R109	1-218-482-11	METAL GLAZE	430	5% 1/16W	
R110	1-216-838-11	METAL CHIP	27K	5% 1/16W	
R111	1-216-824-11	METAL CHIP	1.8K	5% 1/16W	
R113	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R114	1-216-842-11	METAL CHIP	56K	5% 1/16W	
R115	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R116	1-216-852-11	METAL CHIP	390K	5% 1/16W	
R117	1-216-822-11	METAL CHIP	1.2K	5% 1/16W	
R118	1-216-994-11	METAL GLAZE	13K	5% 1/16W	
R119	1-216-822-11	METAL CHIP	1.2K	5% 1/16W	
R120	1-216-809-11	METAL CHIP	100	5% 1/16W	
R121	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R122	1-216-793-11	METAL GLAZE	4.7	5% 1/16W	
R125	1-216-807-11	METAL CHIP	68	5% 1/16W	
R126	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R201	1-216-815-11	METAL CHIP	330	5% 1/16W	
R202	1-216-831-11	METAL CHIP	6.8K	5% 1/16W	
R203	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R204	1-216-817-11	METAL CHIP	470	5% 1/16W	
R205	1-216-835-11	METAL CHIP	15K	5% 1/16W	
R206	1-216-834-11	METAL CHIP	12K	5% 1/16W	
R207	1-216-854-11	METAL CHIP	560K	5% 1/16W	
R208	1-216-838-11	METAL CHIP	27K	5% 1/16W	
R209	1-218-482-11	METAL GLAZE	430	5% 1/16W	
R210	1-216-838-11	METAL CHIP	27K	5% 1/16W	
R211	1-216-824-11	METAL CHIP	1.8K	5% 1/16W	
R213	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R214	1-216-842-11	METAL CHIP	56K	5% 1/16W	
R215	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R216	1-216-852-11	METAL CHIP	390K	5% 1/16W	
R217	1-216-822-11	METAL CHIP	1.2K	5% 1/16W	
R218	1-216-994-11	METAL GLAZE	13K	5% 1/16W	
R219	1-216-822-11	METAL CHIP	1.2K	5% 1/16W	
R220	1-216-809-11	METAL CHIP	100	5% 1/16W	
R221	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R222	1-216-793-11	METAL GLAZE	4.7	5% 1/16W	
R225	1-216-807-11	METAL CHIP	68	5% 1/16W	
R226	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R301	1-216-817-11	METAL CHIP	470	5% 1/16W	
R302	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R303	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R304	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R305	1-216-854-11	METAL CHIP	560K	5% 1/16W	
R306	1-216-832-11	METAL CHIP	8.2K	5% 1/16W	
R307	1-216-832-11	METAL CHIP	8.2K	5% 1/16W	
R309	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R310	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R314	1-216-840-11	METAL CHIP	39K	5% 1/16W	
R315	1-218-292-11	METAL GLAZE	20K	5% 1/16W	
R316	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R317	1-216-827-11	METAL CHIP	3.3K	5% 1/16W	
R318	1-216-849-11	METAL CHIP	220K	5% 1/16W	
R319	1-216-809-11	METAL CHIP	100	5% 1/16W	
R320	1-216-831-11	METAL CHIP	6.8K	5% 1/16W	
R321	1-216-849-11	METAL CHIP	220K	5% 1/16W	
R322	1-216-793-11	METAL GLAZE	4.7	5% 1/16W	
R323	1-216-849-11	METAL CHIP	220K	5% 1/16W	
R324	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R325	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R326	1-216-821-11	METAL CHIP	1K	5% 1/16W	
R327	1-216-789-11	METAL CHIP	2.2	5% 1/16W	
R328	1-216-829-11	METAL CHIP	4.7K	5% 1/16W	
R329	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R330	1-216-842-11	METAL CHIP	56K	5% 1/16W	
R331	1-216-833-11	METAL CHIP	10K	5% 1/16W	

Ref.No.	Part No.	Description			Remark
R337	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R601	1-216-793-11	METAL GLAZE	4.7	5% 1/16W	
R602	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R603	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R604	1-216-835-11	METAL CHIP	15K	5% 1/16W	
R605	1-216-809-11	METAL CHIP	100	5% 1/16W	
R606	1-216-809-11	METAL CHIP	100	5% 1/16W	
R607	1-216-809-11	METAL CHIP	100	5% 1/16W	
R608	1-218-290-11	METAL GLAZE	6.2K	5% 1/16W	
R609	1-216-821-11	METAL CHIP	1K	5% 1/16W	
R610	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R701	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R702	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R703	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R704	1-216-821-11	METAL CHIP	1K	5% 1/16W	
R705	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R706	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R707	1-216-815-11	METAL CHIP	330	5% 1/16W	
R708	1-218-269-11	METAL CHIP	360	0.50% 1/16W	
R709	1-218-345-11	METAL CHIP	9.1K	0.50% 1/16W	
R710	1-216-826-11	METAL CHIP	2.7K	5% 1/16W	
R711	1-218-290-11	METAL CHIP	6.2K	0.50% 1/16W	
R712	1-216-854-11	METAL CHIP	560K	5% 1/16W	
R713	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R714	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R715	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R716	1-216-851-11	METAL CHIP	330K	5% 1/16W	
R717	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R718	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R719	1-216-833-11	METAL CHIP	10K	5% 1/16W	
R720	1-216-839-11	METAL CHIP	33K	5% 1/16W	
R721	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R722	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R723	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R724	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R725	1-216-837-11	METAL CHIP	22K	5% 1/16W	
R726	1-216-817-11	METAL CHIP	470	5% 1/16W	
R727	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R728	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R729	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R730	1-216-825-11	METAL CHIP	2.2K	5% 1/16W	
R733	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R801	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R802	1-216-845-11	METAL CHIP	100K	5% 1/16W	
R803	1-216-799-11	METAL CHIP	15	5% 1/16W	
R804	1-220-373-11	METAL GLAZE	620	1/16W	
R805	1-216-817-11	METAL CHIP	470	5% 1/16W	
R806	1-216-829-11	METAL CHIP	4.7K	5% 1/16W	

Ref.No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV301	1-223-470-11	RES, VAR, CARBON 10K/10K (VOL)	
RV601	1-241-394-11	RES, ADJ, METAL GLAZE 4.7K	
		< SWITCH >	
S301	1-692-589-11	SWITCH, SLIDE (FWD/REV)	
S302	1-571-275-31	SWITCH, SLIDE (REC MODE)	
S304	1-571-275-31	SWITCH, SLIDE (DOLBY NR (PB))	
S305	1-571-506-41	SWITCH, SLIDE (EX DBB)	
S701	1-692-370-11	SWITCH, SLIDE (MD MODE)	
S702	1-571-275-31	SWITCH, SLIDE (MODE/BL SKIP)	
		< TRANSFORMER >	
T301	1-423-744-21	TRANSFORMER, BIAS OSCILLATION	
T801	1-423-745-11	TRANSFORMER, DC-DC CONVERTER	
		< VIBRATOR >	
X701	1-579-258-11	VIBRATOR, CRYSTAL (32.768kHz)	
**********			
	1-644-696-11	MOTOR FLEXIBLE BOARD	
		**********	
		< MOTOR >	
M901	1-698-084-11	MOTOR	
**********			
		MISCELLANEOUS	
		**********	
16	1-467-223-11	SWITCH UNIT (CONTROL BUTTON)	
64	1-467-224-11	SWITCH UNIT (REC BUTTON)	
S901	1-692-100-11	SWITCH, LEAF (ATS/CLAW DET)	
S902	1-692-101-11	SWITCH, LEAF (TAPE/CLAW DET)	
M901	1-698-084-11	MOTOR	
HE901	1-500-059-11	HEAD, MAGNETIC (ERASE)	
HRP901	1-500-060-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-225-11	REMOTE CONTROL UNIT (RM-WM7R)	
	1-528-231-11	BATTERY, NICKEL CADMIUM (NC-6WM)	
	1-528-445-11	BATTERY CHARGER (BC-8AT)	
	1-542-127-11	MICROPHONE	
	1-550-640-11	BATTERY CASE	
	1-569-007-11	ADAPTER, CONVERSION 2P	
	1-691-322-11	ADAPTER, PLUG	

Ref. No.	Part No.	Description	Remark
	3-757-448-41	MANUAL, INSTRUCTION (English)	
	3-905-028-01	CASE, CARRYING	
*	3-906-707-01	INDIVIDUAL CARTON	
	8-953-537-90	HEADPHONE MDR-E741MP//K SET	
	9-911-839-XX	CUSHION, LOCK PLATE	
	X-3329-657-1	ATTACHMENT	
	X-3336-715-1	STAND ASSY, MICROPHONE	

9-957-996-11

Sony Corporation
General Audio Group

English
93G0970033-1
Printed in Singapore
© 1993.7
Published by Audio Sector Quality Assurance Dept.

WM-RX707

SONY
SERVICE MANUAL

Tourist Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
25	J301	1-573-794-21	JACK (MIC)	1-565-436-51 ☛	JACK (MIC)
	J701	1-565-436-51	JACK (REMOTE)	1-573-794-21 ☛	JACK (REMOTE)

Sony Corporation
Consumer A&V Products Company
Personal A&V Products Div.

English
94F09039-1D
Printed in Japan
© 1994.6
Published by Home A&V Products Div. Quality Engineering Dept.

9-957-996-91